

WHAT IS CLAIMED IS:

1 1. A method of identifying service abuse, comprising:
2 receiving an event requesting a service;
3 creating an event identification associated with the event;
4 incrementing a count value of a first table entry of a plurality of table entries
5 in a screening table in response to the event identification matching an event identification
6 associated with the screening table entry;
7 decrementing a count value of a selected table entry of the plurality of table
8 entries in response to the event identification failing to match an event identification
9 associated with the selected table entry;
10 replacing the selected table entry with the event identification associated with
11 the event in response to the count of value of the selected entry equaling zero; and
12 determining a metric value for the event from the screening table, the metric
13 indicating that the event is an abusive request.

1 2. The method of claim 1, wherein the event identification corresponds
2 with the identity of a user.

1 3. The method of claim 2, wherein the event identification includes an IP
2 address.

1 4. The method of claim 2, wherein the event identification includes a user
2 identification.

1 5. The method of claim 1, wherein the event identification corresponds
2 with a content value included in the event.

1 6. The method of claim 5, wherein the content value includes at least a
2 portion of a message.

1 7. The method of claim 5, wherein the content value includes at least a
2 portion of a URL.

1 8. The method of claim 1, further including:
2 selecting a second table entry as a new selected table entry in response to
3 receiving the event.

1 9. The method of claim 1, further including:
2 selecting a second table entry as a new selected table entry in response to the
3 event identification failing to match an event identification associated with the selected table
4 entry.

1 10. The method of claim 1, further including disregarding the event in
2 response to the metric value crossing a threshold value.

1 11. The method of claim 1, further including terminating a connection
2 used to receive the event in response to the metric value crossing a threshold value.

1 12. The method of claim 1, further including returning an error message in
2 response to the event in response to the metric value crossing a threshold value.

1 13. The method of claim 1, further including:
2 determining an average metric value from the metric value and a set of
3 previous metric values; and
4 disregarding the event in response to the average metric value crossing a
5 threshold value.

1 14. The method of claim 1, wherein determining a metric value comprises:
2 determining a first sub-metric value from the screening table;
3 determining a second sub-metric value from a second screening table;
4 determining the metric value from a weighted combination of the first and
5 second sub-metric values.

1 15. A system for identifying service abuse, comprising:
2 a plurality of server computers each adapted to receive an event and to create
3 an event packet in response to the event;
4 a cluster host adapted to receive a plurality of event packets from at least a
5 portion of the plurality of server computers and to update a master screening table in response
6 to the plurality of event packets; and
7 wherein the cluster host is further adapted to communicate a local screening
8 table comprising at least a portion of the master screening table to each of the plurality of

9 server computers, and each of the plurality of server computers is adapted to disregard an
10 event matching a portion of the local screening table.

1 16. The system of claim 15, wherein the local screening table is a copy of
2 the master screening table.

1 17. The system of claim 15, wherein each event packet includes an event
2 identification associated with a event.

1 18. The system of claim 17, wherein the event identification corresponds
2 with the identity of a user.

1 19. The system of claim 18, wherein the event identification includes an IP
2 address.

1 20. The system of claim 18, wherein the event identification includes a
2 user identification.

1 21. The system of claim 17, wherein the event identification corresponds
2 with a content value included in the event.

1 22. The system of claim 21 wherein the content value includes at least a
2 portion of a message.

1 23. The system of claim 21, wherein the content value includes at least a
2 portion of a URL.

1 24. The system of claim 21, wherein the content value is a hash of the
2 content value included in the event.

1 25. The system of claim 15, wherein the cluster host is further adapted to
2 determine a metric value for an entry of the master screening table, the metric indicating that
3 the entry of the master screening table corresponds to an abusive request.

1 26. The system of claim 25, wherein the cluster host is further adapted to
2 set a block value associated with the entry in response to the metric value.

1 27. The system of claim 25, wherein the cluster host is adapted to
2 determine an average metric value from the metric value and a set of previous metric values
3 and to set a block value associated with the entry in response to the average metric value.

1 28. The system of claim 15, wherein the cluster host is adapted to
2 determine a first sub-metric value from the entry, to determine a second sub-metric value
3 from an entry of a second master screening table, and to determine the metric value from a
4 weighted combination of the first and second sub-metric values.